Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A broadcast television system committee (BTSC) decoder, comprising:

an intermediate frequency (I/F) demodulator configured to convert and demodulate received I/F signals to digital audio samples;

a digital signal processor (DSP) configured to BTSC-decode the digital samples; and

an all digital interface that couples the I/F demodulator to the DSP; wherein the digital samples are composite BTSC samples formatted in accordance with multi-channel television sound (MTS) standards.

- 2. (Original) The decoder of claim 1, wherein the received analog I/F signal is a carrier signal.
 - 3. (cancelled)
- 4. (Original) The decoder of claim 1, wherein the digital interface does not include a digital to analog converter (DAC).
- 5. (Original) The decoder of claim 1, wherein the digital interface does not include a gain control device.

- 6. (Original) The decoder of claim 1, wherein the digital interface does not include an analog to digital converter (ADC).
- 7. (Original) The decoder of claim 1, wherein the DSP does not include an automatic gain control (AGC) device.
- 8. (Currently Amended) A broadcast television system committee (BTSC) decoder including an (i) intermediate frequency (I/F) demodulator configured for demodulating received analog I/F signals and converting the received I/F analog signals to digital form and (ii) a digital signal processor (DSP) configured to process the digital signals, the decoder comprising;

a digital interface configured to couple the I/F demodulator and the DSP;

wherein the digital interface is configured to transfer digital samples that are

composite BTSC samples formatted in accordance with multi-channel television sound

(MTS) standards.

- 9. (Original) The decoder of claim 8, wherein the DSP does not include an automatic gain control device.
- 10. (Original) The decoder of claim 8, further comprising a scalable digital output.
 - 11. (Original) The decoder of claim 8, wherein the digital interface is all digital.

- 12. (Original) The decoder of claim 8, wherein the digital interface does not include a digital to analog converter (DAC).
- 13. (Original) The decoder of claim 8, wherein the digital interface does not include an analog to digital converter (ADC).
- 14. (Original) The decoder of claim 8, wherein the digital interface permits the digital signal to be transferred from the I/F demodulator to the DSP in a purely digital domain.
- 15. (Currently Amended) A method for decoding an analog television audio signal, comprising:

receiving a radio frequency (RF) signal;

down-converting the received RF audio signal to an intermediate frequency signal;

converting the IF audio signal to digital samples;

FM modulating demodulating and decimating the digital samples to a lower data rate; and

providing the decimated digital samples to a digital signal processor (DSP) through an all digital interface;

wherein the decimated digital samples are composite BTSC samples formatted in accordance with multi-channel television sound (MTS) standards.